```
* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:21:06 ON 26 JUL 2000

=> file medline, biosis, embase, caplus, uspatfull

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FILE 'USPATFULL' ENTERED AT 11:21:43 ON 26 JUL 2000
CA INDEXING COPYRIGHT (C) 2000 AMERICAN CHEMICAL SOCIETY (ACS)

=> s (flt4 (s) ligand) (p) antibody

L1             5 (FLT4 (S) LIGAND) (P) ANTIBODY

=> dup rem l1

PROCESSING COMPLETED FOR L1
L2             4 DUP REM L1 (1 DUPLICATE REMOVED)

=> d l2 total ibib kwic


L2   ANSWER 1 OF 4  USPATFULL
ACCESSION NUMBER:         1999:110189  USPATFULL
TITLE:                    Chimeric receptors as inhibitors of vascular
                          endothelial growth factor activity, and processes for
                          their production
INVENTOR(S):              Davis-Smyth, Terri Lynn, Foster City, CA, United
States
                          Chen, Helen Hsifei, Daly City, CA, United States
                          Presta, Leonard, San Francisco, CA, United States
                          Ferrara, Napoleone, San Francisco, CA, United States
PATENT ASSIGNEE(S):       Genentech, Inc., S. San Francisco, CA, United States
                          (U.S. corporation)

                               NUMBER         DATE
                          --------------- --------
PATENT INFORMATION:       US 5952199      19990914
APPLICATION INFO.:        US 1997-874678  19970613  (8)
RELATED APPLN. INFO.:     Division of Ser. No. US 1996-643839, filed on 7 May
                          1996
DOCUMENT TYPE:            Utility
PRIMARY EXAMINER:         Feisee, Lila
ASSISTANT EXAMINER:       Kaufman, Claire M.
```

LEGAL REPRESENTATIVE: Johnston, Sean; Vance, Dol[redacted] A.Flehr Hohbach Test Albritton & Herbert LLP
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 2658
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DETD . . . expressing 293 cells were deprived of serum 16-18 hrs prior to stimulation by a given factor. Cells were stimulated with **FLT4 ligand** (VH1.4.5; VEGF-C/VRP) at a concentration of 400 ng/ml, 50 ng/ml VEGF, or 0.5 nM PLGF for 15 minutes at 37.degree.. . . 1 ml lysis buffer. The lysate was cleared of cellular debris and the receptors were immunoprecipitated using JTL.1, a polyclonal **antibody** directed against the extracellular domain of the **FLT4** receptor (see Lee et. al., Proc. Natl. Acad. Sci USA, 93:1988-1992 (1996)). The immunoprecipitates were then subjected to western gel/blot analysis using the 4G10 anti-phosphotyrosine monoclonal **antibody** (UBI, Lake Placid, N.Y.). Immunoreactive bands were visualized with an ABC kit according to manufacturers directions (Vector Laboratories).

L2 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 1
ACCESSION NUMBER: 1998:471458 CAPLUS
DOCUMENT NUMBER: 129:119594
TITLE: Cloning and cDNA sequences of human FLT4 receptor tyrosine kinase isoforms and stimulator ligand
INVENTOR(S): Alitalo, Kari; Aprelikova, Olga; Pajusola, Katri; Armstrong, Elina; Korhonen, Jaana; Kaipainen, Arja
PATENT ASSIGNEE(S): Helsinki University Licensing, Ltd., Finland
SOURCE: U.S., 65 pp. Cont.-in-part of U. S. Ser. No. 959,951, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5776755	A	19980707	US 1994-340011	19941114
WO 9833917	A1	19980806	WO 1998-US1973	19980202
W: AU, CA, CN, JP, NZ, US, US, US, US, US, US, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9862624	A1	19980825	AU 1998-62624	19980202
EP 972028	A1	20000119	EP 1998-904842	19980202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.:
US 1992-959951 19921009
US 1994-340011 19941114
US 1995-510133 19950801
US 1996-585895 19960112
US 1996-601132 19960214
US 1996-671573 19960628
WO 1996-FI427 19960801
US 1997-795430 19970205
WO 1998-US1973 19980202

IT **Antibodies**
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cloning and cDNA sequences of human **FLT4** receptor tyrosine kinase isoforms and stimulator **ligand**)

L2 ANSWER 3 OF [redacted] CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1997:278962 CAPLUS
DOCUMENT NUMBER: 126:247137
TITLE: VRP: a protein tyrosine kinase Flt4 ligand related to vascular endothelial growth factor
INVENTOR(S): Lee, James; Wood, William
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9709427	A1	19970313	WO 1996-US14075	19960830
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM				
AU 9670128	A1	19970327	AU 1996-70128	19960830
AU 710696	B2	19990930		
EP 848755	A1	19980624	EP 1996-931450	19960830
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11514976	T2	19991221	JP 1996-511317	19960830
PRIORITY APPLN. INFO.:			US 1995-3491	19950908
			WO 1996-US14075	19960830

IT **Antibodies**
Monoclonal **antibodies**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(to VRP; VRP: protein tyrosine kinase **Flt4 ligand** related to vascular endothelial growth factor)

L2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1997:240615 CAPLUS
DOCUMENT NUMBER: 126:221078
TITLE: A tyrosine phosphorylation-stimulating ligand, VEGF-C, for the FLT4 receptor tyrosine kinase and a cDNA encoding it
INVENTOR(S): Alitalo, Kari; Joukov, Vladimir
PATENT ASSIGNEE(S): Helsinki University Licensing Ltd. Oy, Finland; Alitalo, Kari; Joukov, Vladimir
SOURCE: PCT Int. Appl., 183 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9705250	A2	19970213	WO 1996-FI427	19960801
WO 9705250	A3	19970410		
W: AU, CA, CN, JP, NO, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2228248	AA	19970213	CA 1996-2228248	19960801
AU 9666169	A1	19970226	AU 1996-66169	19960801
AU 711578	B2	19991014		
EP 842273	A2	19980520	EP 1996-925768	19960801

R: AT, [redacted], CH, DE, DK, ES, FR, GB, GR, [redacted] LI, LU, NL, SE, MC, PT, IE,

JP 11510689 T2 19990921 JP 1996-507262 19960801
CN 1242043 A 20000119 CN 1996-197353 19960801
WO 9833917 A1 19980806 WO 1998-US1973 19980202
W: AU, CA, CN, JP, NZ, US, US, US, US, US, US, US
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AU 9862624 A1 19980825 AU 1998-62624 19980202
EP 972028 A1 20000119 EP 1998-904842 19980202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
PRIORITY APPLN. INFO.: US 1995-510133 19950801
US 1996-585895 19960112
US 1996-601132 19960214
US 1996-671573 19960628
US 1994-340011 19941114
WO 1996-FI427 19960801
US 1997-795430 19970205
WO 1998-US1973 19980202

IT **Antibodies**
Monoclonal **antibodies**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(to **FLT4 ligand** VEGF-C; tyrosine phosphorylation-stimulating **ligand**, VEGF-C, for **FLT4** receptor tyrosine kinase and cDNA encoding it)

=> d his

(FILE 'HOME' ENTERED AT 11:21:06 ON 26 JUL 2000)

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS, USPATFULL' ENTERED AT 11:21:43 ON 26 JUL 2000
L1 5 S (FLT4 (S) LIGAND) (P) ANTIBODY
L2 4 DUP REM L1 (1 DUPLICATE REMOVED)

=> s (flt4 (s) ligand) (p) cancer

L3 0 (FLT4 (S) LIGAND) (P) CANCER

=> s flt4 (s) inhibitor

L4 5 FLT4 (S) INHIBITOR

=> dup rem

ENTER L# LIST OR (END):l4

PROCESSING COMPLETED FOR L4
L5 5 DUP REM L4 (0 DUPLICATES REMOVED)

=> d l5 total ibib kwic

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 2000:260057 CAPLUS
DOCUMENT NUMBER: 132:298824
TITLE: Flt4 (VEGFR-3) as a target for tumor imaging and anti-tumor therapy
INVENTOR(S): Alitalo, Kari; Kaipainen, Arja; Valltola, Reija; Jussila, Lotta
PATENT ASSIGNEE(S): Ludwig Institute for Cancer Research, USA; Helsinki University Licensing Ltd. Oy
SOURCE: PCT Int. Appl., 148 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021560	A1	20000420	WO 1999-US23525	19991008

W: AU, CA, CN, JP, NO, NZ
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: US 1998-169079 19981009
REFERENCE COUNT: 3
REFERENCE(S): (1) Alitalo, K; WO 9533772 A 1995
(2) Helsinki University Licensing; WO 9705250 A 1997
(3) Joukov, V; THE EMBO JOURNAL 1996, V15(2), P290 CAPLUS

IT Mammary gland
(carcinoma, **inhibitors**; **Flt4** (VEGFR-3) as a target for tumor imaging and anti-tumor therapy)

L5 ANSWER 2 OF 5 USPATFULL
ACCESSION NUMBER: 2000:18280 USPATFULL
TITLE: Nucleic acid sequence of senescence asssociated gene
INVENTOR(S): Funk, Walter, Hayward, CA, United States
PATENT ASSIGNEE(S): Geron Corporation, Menlo Park, CA, United States (U.S. corporation)

	NUMBER	DATE
PATENT INFORMATION:	US 6025194	20000215
APPLICATION INFO.:	US 1997-974180	19971119 (8)

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Huff, Sheela
ASSISTANT EXAMINER: Bansal, Geetha P.
LEGAL REPRESENTATIVE: Earp, David J.; Kaster, Kevin
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1,6
LINE COUNT: 4667
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DETD . . . cyclin B1
H41433 302484 protein kinase C zeta
W38932 304843 heme oxygenase 2
W38689 305014 omithine decarboxylase
W39150 305149 IAP (**inhibitor** of apoptosis)
N91919 306848 mineralocorticoid receptor
W24300 306951 retinol-binding protein I, cellular
N95176 307293 rap-1A (ras related protein)
N92931 307710. . . sapiens 5,10-methenyltetrahydrofolate synthetase
AA033966 429883 cytochrome P450 IIC8
AA034057 429925 a-1 acid glycoprotein
AA034051 429926 APC
AA033993 429934 DNA-binding protein **inhibitor** ID-2
T91369 116501 flk-1/KDR (VEGF receptor 2)
AA034015 430006 dermatopontin
AA026197 469275 prostaglandin-I synthase (prostacyclin synthase)
AA027039 469378 TNF initial. . . AA044619 486757 cathepsin K
AA043226 486785 plasminogen
AA045303 487092 interferon-inducible protein 1-8D
AA043718 487341 endothelin receptor
AA046659 487394 plasminogen activator **inhibitor**-1 (PAI-1)
AA046720 487416 IGF Binding Protein 4
AA044993 487513 connective tissue growth factor precursor
AA045364 487811 peptidyl-glycine alpha-amidating monooxygenase (PAM)
. . . 488891 ubiquitin-conjugating enzyme E2-17KD (RAD6-B)

AA047379 488932 importin-beta
AA046892 488974 defender against cell death 1
AA047092 488999 protein kinase C **inhibitor**
AA047161 489042 CD30
AA057189 489055 RhoG
AA058523 489327 Human mRNA for raf oncogene
AA058472 489366 IGF binding protein 1
AA101829. . . AA293368 726153 Ku (70kDa subunit)
AA397905 726506 Thrombin receptor
AA394212 726536 tristetraproline (zinc-finger transcriptional regulator)
AA398273 726722 tyrosine-protein kinase receptor **FLT4** (VEGF3 receptor)
AA398424 726898 reticulin
AA435903 728710 COUP transcription factor (V-erbA related ear-3 protein)
AA398782 729256 cap-binding protein eIF-4E
AA421225. . . FHF4
AA400276 742657 heparin-binding EGF-like growth factor
AA411316 755032 MAD2
AA423811 755456 IGF binding protein 2
AA496426 755832 placental ribonuclease/angiogenin **inhibitor**
AA496611 755964 natriuretic peptide receptor
AA482111 756377 collagenase **inhibitor**
AA429058 756936 monoamine oxidase
AA496096 757144 Activin B-c chain
AA442853 757873 P35 regulatory subunit of CDK5
AA393689 758424 AKT (rac. . .

L5 ANSWER 3 OF 5 USPATFULL
ACCESSION NUMBER: 1999:155460 USPATFULL
TITLE: Methods of assaying differential expression
INVENTOR(S): Chenchik, Alex, Palo Alto, CA, United States
Jokhadze, George, Mountain View, CA, United States
Bibilashvilli, Robert, Moscow, Russian Federation
PATENT ASSIGNEE(S): Clontech Laboratories, Inc., Palo Alto, CA, United States (U.S. corporation)

	NUMBER	DATE
PATENT INFORMATION:	US 5994076	19991130
APPLICATION INFO.:	US 1997-859998	19970521 (8)

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Fredman, Jeffrey
LEGAL REPRESENTATIVE: Bozicevic & Reed LLP; Field, Bret E.
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 13450
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DETD . . . NO.144
CCCTGTAAACATGAGAATGGGCTCGTGACA 30
-
TYROSINE KINASE, RECEPTOR TIE
SEQ ID NO.145
CTACAGTGTCTATACCACCAAGAGTGATGTC
31
- SEQ ID NO.146 GGCTGTAAGGGTCAGACTGGTCACAGGTTA 30
-
TYROSINE KINASE, RECEPTOR **FLT4**, CLASS III
SEQ ID NO.147
CAGGTGCTTCCCAGACACTGGCGTTACT
28
- SEQ ID NO.148 ACTCATATTACCAAGGAATAACTGGCGGGCA 31
-
HELIX-LOOP-HELIX PROTEIN 1R21
SEQ ID NO.149

TGAAGTCAAGTGGGCAGGGCGAAGTTGG
28
-. . . - SEQ ID NO.202 GGGATCAGTCCTTGAATCCCTGAATACTGCA 31
-
HAES-1
SEQ ID NO.203
GACTCCTGCGACCGCATCAAAGACGAATTT
30
- SEQ ID NO.204 GCTGTCGGATGATAGAGTTCAGCTCGGGA 29
-
DNA-BINDING PROTEIN/PLASMINOGEN ACTIVATOR **INHIBITOR**-1 REGULATOR
SEQ ID NO.205
CCTCTTGTCATCCCACTCAGCGCCATGT
28
- SEQ ID NO.206 CTCCCGTGTAATAGCGTAGTCCAACCACAT 30
-
INTERFERON, GAMMA RECEPTOR
SEQ ID NO.207
ACGTTCCACAGGGCCAGGTGAGCTTTCT
28
- SEQ. . .

L5 ANSWER 4 OF 5 USPATFULL
ACCESSION NUMBER: 1998:79002 USPATFULL
TITLE: FLT4, a receptor tyrosine kinase
INVENTOR(S): Alitalo, Kari, Espoo, Finland
Aprelikova, Olga, Helsinki, Finland
Pajusola, Katri, Helsinki, Finland
Armstrong, Elina, Helsinki, Finland
Korhonen, Jaana, Helsinki, Finland
Kaipainen, Arja, Helsinki, Finland
PATENT ASSIGNEE(S): Helsinki University Licensing, Ltd., Helsinki, Finland (non-U.S. corporation)

	NUMBER	DATE
PATENT INFORMATION:	US 5776755	19980707
APPLICATION INFO.:	US 1994-340011	19941114 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1992-959951, filed on 9 Oct 1992, now abandoned
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Patterson, Jr., Charles L.
ASSISTANT EXAMINER: Moore, William W.
LEGAL REPRESENTATIVE: Marshall, O'Toole, Gerstein, Murray & Borun
NUMBER OF CLAIMS: 45
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 32 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 2570
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
SUMM The present invention also provides a cell line source for the ligand of the **FLT4** receptor tyrosine kinase. Using the conditioned medium from these cells the **FLT4** ligand may be purified and cloned by using methods standard in the art. Using this conditioned medium an assay system for **FLT4** ligand and dimerization **inhibitors** as well as **inhibitors** of **FLT4** signal transduction are obtained, which allow for identification and preparation of such **inhibitors**.
SUMM The identification of **FLT4** stimulating ligand makes it directly possible to assay for **inhibitors** of this ligand or **inhibitors** of **FLT4** function. Such **inhibitors** are simply added to the conditioned media containing the **FLT4** ligand and if they inhibit autophosphorylation, they act as **FLT4** signalling **inhibitors**. For example, synthetic peptides may be assayed for inhibition of **FLT4**-ligand interaction or **FLT4** dimerization. Such putative **inhibitors** of

FLT4 and, in addition, antibodies against the **FLT4** ligand, peptides or other compounds blocking **FLT4** receptor-ligand interaction, as well as antisense oligonucleotides complementary to the sequence of mRNA encoding the **FLT4** ligand are useful in the regulation of endothelial cells and in the treatment of diseases associated with endothelial cell function.

DETD The polyclonal antibodies against the **FLT4** C-terminus have been described in Pajusola et al., of record. For immunoprecipitation, the supernatants were incubated for 2 hours on ice with 2 to 4 ml of rabbit polyclonal anti-**FLT4** antiserum. About 30 ml of a 50% (vol/vol) solution of protein A-Sepharose (Pharmacia) in PBS was added and incubation was. . . at 50.degree. C. in 100 mM 2-mercaptoethanol, 2% SDS, 62.5 mM Tris-HCl pH 6.7 with occasional agitation and restained with anti-**FLT4** antibodies (1:1000 dilution) followed by staining with peroxidase-conjugated swine anti-rabbit antibodies (1:1000 dilution, Dako, P217). As a positive control for the tyrosine phosphorylation of **FLT4**, anti-**FLT4** immunoprecipitates from the **FLT4** expressing NIH3T3 cells treated with 100 mM of the tyrosyl phosphatase **inhibitor** sodium pervanadate (PerVO4) for 20 minutes were used. Treatment of cells with Sodium pervanadate was done by addition of 100. . . CO.sub.2. That procedure resulted in the generation of the peroxidized form of vanadate (vanadyl hydroperoxide), which is a very potent **inhibitor** of the protein tyrosine phosphatases in living cells.

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1997:776257 CAPLUS
DOCUMENT NUMBER: 128:47303
TITLE: Chimeric forms of vascular endothelial growth factor receptor proteins as novel inhibitors of vascular endothelial growth factor activity
INVENTOR(S): Davis-Smyth, Terri Lynn; Chen, Helen Hsifei; Presta, Leonard; Ferrara, Napoleone
PATENT ASSIGNEE(S): Genentech, Inc., USA; Davis-Smyth, Terri Lynn; Chen, Helen Hsifei; Presta, Leonard; Ferrara, Napoleone
SOURCE: PCT Int. Appl., 62 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9744453	A1	19971127	WO 1997-US7694	19970506
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9730604	A1	19971209	AU 1997-30604	19970506
AU 717112	B2	20000316		
EP 907733	A1	19990414	EP 1997-925475	19970506
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000502357	T2	20000229	JP 1997-542429	19970506
US 5952199	A	19990914	US 1997-874678	19970613
PRIORITY APPLN. INFO.:			US 1996-643839	19960507
			WO 1997-US7694	19970506

IT Proteins (specific proteins and subclasses)

RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(gene **FLT4**, fusion products with Ig-like ligand-binding domains of VEGF receptors; chimeric forms of vascular endothelial growth factor receptor proteins as novel **inhibitors** of vascular endothelial growth factor activity)

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.74	23.89

STN INTERNATIONAL LOGOFF AT 11:26:03 ON 26 JUL 2000

09313299results

SEQ ID NO: 3 amino acids 21-49

```
RESULT   9
Y22320
ID   Y22320 standard; Protein; 419 AA.
XX
AC   Y22320;
XX
DT   22-SEP-1999  (first entry)
XX
DE   Full length human VEGF2 protein sequence.
XX
KW   VEGF2; vascular endothelial growth factor 2; angiogenesis; bone damage;
KW   endothelial cell proliferation; tissue damage; therapy.
XX
OS   Homo sapiens.
XX
PN   US5932540-A.
XX
PD   03-AUG-1999.
XX
PF   24-DEC-1997;   97US-0999811.
XX
PR   24-DEC-1997;   97US-0999811.
PR   08-MAR-1994;   94US-0207550.
PR   06-JUN-1995;   95US-0465968.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Cao L,  Hu J,  Rosen CA;
XX
DR   WPI; 1999-443606/37.
DR   N-PSDB; X84837.
XX
PT   Vascular endothelial growth factor 2 for wound healing and vascular
PT   repair
XX
PS   Claim 1; Fig 1; 49pp; English.
XX
CC   This sequence is the vascular endothelial growth factor 2 (VEGF2),
CC   of the invention. The isolated polypeptide is useful for stimulating
CC   angiogenesis, by promoting the proliferation of endothelial cells, for
CC   the treatment of a wound, or for the treatment of tissue or bone damage.
XX
SQ   Sequence   419 AA;


  Query Match            100.0%;  Score 145;  DB 20;  Length 419;
  Best Local Similarity  100.0%;  Pred. No. 1.2e-13;
  Matches   29;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 GPREAPAAAAAFESGLDLSDAEPDAGEAT 29
           |||||||||||||||||||||||||||||
Db      21 gpreapaaaaafesgldlsdaepdageat 49




RESULT   2
US-09-042-105-2
; Sequence 2, Application US/09042105
; Patent No. 6040157
;  GENERAL INFORMATION:
;    APPLICANT:  HU, JING-SHAN
;    APPLICANT:  ROSEN, CRAIG A.
;    APPLICANT:  CAO, LIANG
```

; TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR 2
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
; STREET: 1100 NEW YORK AVENUE
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/042,105
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/207,550
; FILING DATE: 8-MAR-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/465,968
; FILING DATE: 06-JUN-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: TO BE ASSIGNED
; FILING DATE: 24-DEC-1997
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ERIC K. STEFFE
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.1000003/EKS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)371-2600
; TELEFAX: (202)371-2540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 419 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-042-105-2

Query Match 100.0%; Score 145; DB 3; Length 419;
Best Local Similarity 100.0%; Pred. No. 4.7e-14;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GPREAPAAAAAFESGLDLSDAEPDAGEAT 29
||||||||||||||||||||||||||||
Db 21 GPREAPAAAAAFESGLDLSDAEPDAGEAT 49

Sequence Comparison B

SEQ ID NO: 3 amino acids 1-157

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RESULT   9
Y22320
ID   Y22320 standard; Protein; 419 AA.
XX
AC   Y22320;
XX
DT   22-SEP-1999  (first entry)
XX
DE   Full length human VEGF2 protein sequence.
XX
KW   VEGF2; vascular endothelial growth factor 2; angiogenesis; bone damage;
KW   endothelial cell proliferation; tissue damage; therapy.
XX
OS   Homo sapiens.
XX
PN   US5932540-A.
XX
PD   03-AUG-1999.
XX
PF   24-DEC-1997;   97US-0999811.
XX
PR   24-DEC-1997;   97US-0999811.
PR   08-MAR-1994;   94US-0207550.
PR   06-JUN-1995;   95US-0465968.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Cao L,  Hu J,  Rosen CA;
XX
DR   WPI; 1999-443606/37.
DR   N-PSDB; X84837.
XX
PT   Vascular endothelial growth factor 2 for wound healing and vascular
PT   repair
XX
PS   Claim 1; Fig 1; 49pp; English.
XX
CC   This sequence is the vascular endothelial growth factor 2 (VEGF2),
CC   of the invention. The isolated polypeptide is useful for stimulating
CC   angiogenesis, by promoting the proliferation of endothelial cells, for
CC   the treatment of a wound, or for the treatment of tissue or bone damage.
XX
SQ   Sequence   419 AA;


  Query Match             98.4%;  Score 814;  DB 20;  Length 419;
  Best Local Similarity   98.7%;  Pred. No. 6.3e-80;
  Matches  155;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy       1 MHLLGFFSVACSLLAAALLPGPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQL 60
           || |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 mhslgffsvacsllaaallpgpreapaaaaafesgldlsdaepdageatayaskdleeql 60

Qy      61 RSVSSVDELMTVLYPEYWKMYKCQLRKGGWQHNREQANLNSRTEETIKFAAAHTNTEILK 120
           |||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||
Db      61 rsvssvdelmtvlypeywkmykcqlrkggwqhnreqanlnsrteetikfaaahynteilk 120

Qy     121 SIDNEWRKTQCMPREVCIDVGKEFGVATNTFFKPPCV 157
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Db     121 sidnewrktqcmprevcidvgkefgvatntffkppcv 157
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Sequence Comparison C
SEQ ID NO: 3 amino acids 21-157

PN US5932540-A.
XX
PD 03-AUG-1999.
XX
PF 24-DEC-1997; 97US-0999811.
XX
PR 24-DEC-1997; 97US-0999811.
PR 08-MA PN US5932540-A.
XX
PD 03-AUG-1999.
XX
PF 24-DEC-1997; 97US-0999811.
XX
PR 24-DEC-1997; 97US-0999811.
PR 08-MAR-1994; 94US-0207550.
PR 06-JUN-1995; 95US-0465968.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Cao L, Hu J, Rosen CA;
XX
DR WPI; 1999-443606/37.
DR N-PSDB; X84837.
XX
PT Vascular endothelial growth factor 2 for wound healing and vascular
PT repair
XX
PS Claim 1; Fig 1; 49pp; English.
XX
CC This sequence is the vascular endothelial growth factor 2 (VEGF2),
CC of the invention. The isolated polypeptide is useful for stimulating
CC angiogenesis, by promoting the proliferation of endothelial cells, for
CC the treatment of a wound, or for the treatment of tissue or bone damage.
XX
SQ Sequence 419 AA;

Query Match 99.0%; Score 721; DB 20; Length 419;
Best Local Similarity 99.3%; Pred. No. 2.2e-74;
Matches 136; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy       1 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 60
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Db      21 gpreapaaaaafesgldlsdaepdageatayaskdleeqlrsvssvdelmtvlypeywkm 80

Qy      61 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHTNTEILKSIDNEWRKTQCMPREVCIDV 120
           |||||||||||||||||||||||||||||||| |||||||||||||||||||||||||||
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Qy     121 GKEFGVATNTFFKPPCV 137
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Db     141 gkefgvatntffkppcv 157
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Sequence Comparison D
SEQ ID NO: 3 amino acids 21-419

PN US5932540-A.
XX
PD 03-AUG-1999.
XX
PF 24-DEC-1997; 97US-0999811.
XX
PR 24-DEC-1997; 97US-0999811.
PR 08-MAR-1994; 94US-0207550.
PR 06-JUN-1995; 95US-0465968.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Cao L, Hu J, Rosen CA;
XX
DR WPI; 1999-443606/37.
DR N-PSDB; X84837.
XX
PT Vascular endothelial growth factor 2 for wound healing and vascular
PT repair
XX
PS Claim 1; Fig 1; 49pp; English.
XX
CC This sequence is the vascular endothelial growth factor 2 (VEGF2),
CC of the invention. The isolated polypeptide is useful for stimulating
CC angiogenesis, by promoting the proliferation of endothelial cells, for
CC the treatment of a wound, or for the treatment of tissue or bone damage.
XX
SQ Sequence 419 AA;

Query Match 99.5%; Score 2224; DB 20; Length 419;
Best Local Similarity 99.5%; Pred. No. 1.9e-162;
Matches 397; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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Db      21 gpreapaaaaafesgldlsdaepdageatayaskdleeqlrsvssvdelmtvlypeywkm 80

Qy      61 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHTNTEILKSIDNEWRKTQCMPREVCIDV 120
           |||||||||||||||||||||||||||||| |||||||||||||||||||||||||||||
Db      81 ykcqlrkggwqhnreqanlnsrteetikfaaahynteilksidnewrktqcmprevcidv 140

Qy     121 GKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVT 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     141 gkefgvatntffkppcvsvyrcggccnseglqcmntstsylsktlfeitvplsqgpkpvt 200

Qy     181 ISFANHTSCRCMSKLDVYRQVHSIIRRSLPATLPQCQAANKTCPTNYMWNNHICRCLAQE 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     201 isfanhtscrcmskldvyrqvhsiirrslpatlpqcqaanktcptnymwnnhicrclaqe 260

Qy     241 DFMFSSDAGDDSTDGFHDICGPNKELDEETCQCVCRAGLRPASCGPHKELDRNSCQCVCK 300
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     261 dfmfssdagddstdgfhdicgpnkeldeetcqcvcraglrpascgphkeldrnscqcvck 320

Qy     301 NKLFPSQCGANREFDENTCQCVCKRTCPRNQPLNPGKCACECTESPQKCLLKGKKFHHQT 360
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     321 nklfpsqcganrefdentcqcvckrtcprnqplnpgkcacectespqkcllkgkkfhhqt 380

Qy     361 CSCYRRPCTNRQKACEPGFSYSEEVCRCVPSYWKRPQMS 399
           ||||||||||||||||||||||||||||||:||||||
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SEQ ID NO: 3 21-49

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RESULT   4
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ID   W13833 standard; Protein; 419 AA.
XX
AC   W13833;
XX
DT   05-JUN-1997  (first entry)
XX
DE   Human vascular endothelial growth factor-related protein VRP.
XX
KW   Vascular endothelial growth factor-releated protein; VRP; VEGF;
KW   receptor protein tyrosine kinase; Flt4; signal transduction;
KW   wound healing; vulnerary; rheumatoid arthritis; Kaposi's sarcoma;
KW   therapy; diagnosis; angiogenesis; monoclonal antibody.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Peptide         1..20
FT                   /label= Sig_peptide
FT   Protein         20..419
FT                   /label= Mat_protein
FT   Misc-difference 114
FT                   /note= "deduced residue from nucleotide sequence
FT                           is tyrosine"
XX
PN   WO9709427-A1.
XX
PD   13-MAR-1997.
XX
PF   30-AUG-1996;   96WO-US14075.
XX
PR   08-SEP-1995;   95US-0003491.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Lee J,  Wood W;
XX
DR   WPI; 1997-192902/17.
DR   N-PSDB; T59929.
XX
PT   Human protein similar to vascular endothelial growth factor - used
PT   to treat e.g. wounds, tumours, rheumatoid arthritis, Kaposi's
PT   sarcoma etc.
XX
PS   Claim 6; Fig 1A-D; 68pp; English.
XX
CC   A human vascular endothelial growth factor (VEGF)-related protein
CC   (VRP) (W13833) has been identified that binds to, and stimulates
CC   the phosphorylation of, the receptor tyrosine kinase Flt4.  It is
CC   postulated to be a third member of the VEGF protein family.  Its
CC   amino acid sequence was deduced from a cDNA clone (T59929) obtd.
CC   from a glioma G61 library.  Recombinant VRF can be produced in
CC   transformed host cells and used: to promote growth of vascular and
CC   lymph endothelial cells; to stimulate phosphorylation of the
CC   tyrosine kinase domain of a Flt4 receptor; as a diagnostic; as an
CC   additive to cell cultures; to screen for (ant)agonists: and to
CC   raise monoclonal antibodies used to treat conditions associated
CC   with excessive neovascularisation or vascular permeability.  VRP
CC   may make it possible to avoid coronary by-pass surgery by
CC   stimulating growth of the collateral circulation.
XX
SQ   Sequence   419 AA;

  Query Match             100.0%;  Score 145;  DB 18;  Length 419;
  Best Local Similarity   100.0%;  Pred. No. 1.2e-13;
  Matches   29;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy       1 GPREAPAAAAAFESGLDLSDAEPDAGEAT 29
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Db      21 gpreapaaaaafesgldlsdaepdageat 49

RESULT   1
US-08-999-811-2
; Sequence 2, Application US/08999811
; Patent No. 5932540
;  GENERAL INFORMATION:
;    APPLICANT:  HU, JING-SHAN
;    APPLICANT:  ROSEN, CRAIG A.
;    APPLICANT:  CAO, LIANG
;    TITLE OF INVENTION:  VASCULAR ENDOTHELIAL GROWTH FACTOR 2
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  STERNE, KESSLER, GOLDSTEIN & FOX
;      STREET:  1100 NEW YORK AVENUE
;      CITY:  WASHINGTON
;      STATE:  DC
;      COUNTRY:  USA
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/999,811
;      FILING DATE:  HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/207,550
;      FILING DATE:  8-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/465,968
;      FILING DATE:  06-JUN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MARKOWICZ, KAREN R.
;      REGISTRATION NUMBER:  36,351
;      REFERENCE/DOCKET NUMBER:  1488.1000004
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)371-2600
;      TELEFAX:  (202)371-2540
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  419 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-999-811-2


  Query Match             100.0%;  Score 145;  DB 2;  Length 419;
  Best Local Similarity   100.0%;  Pred. No. 4.7e-14;
  Matches   29;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 GPREAPAAAAAFESGLDLSDAEPDAGEAT 29
           |||||||||||||||||||||||||||||
Db      21 GPREAPAAAAAFESGLDLSDAEPDAGEAT 49
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SEQ ID NO: 3 1-49

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RESULT   3
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ID   W17837 standard; Protein; 419 AA.
XX
AC   W17837;
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XX
DT 13-JAN-1998 (first entry)
XX
DE Human foetal liver kinase A binding protein flk-1bp.
XX
KW Foetal liver kinase 1 binding protein; human; flk-1bp;
KW receptor tyrosine kinase; vasculogenesis; angiogenesis;
KW wound healing; tumour; therapy; antagonist; antibody.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..20
FT /label= Sig_peptide
FT Protein 21..419
FT /label= Mat_protein
FT /note= "(Claim 10)"
FT Peptide 21..35
FT /label= N-terminal
FT /note= "(Claim 9)"
XX
PN WO9717442-A1.
XX
PD 15-MAY-1997.
XX
PF 05-NOV-1996; 96WO-US17584.
XX
PR 08-NOV-1995; 95US-0554374.
XX
PA (IMMV) IMMUNEX CORP.
XX
PI Lyman SD;
XX
DR WPI; 1997-281031/25.
DR N-PSDB; T68811.
XX
PT DNA encoding a human foetal liver kinase 1 binding protein - used
PT to treat conditions with insufficient protein, deliver agents to
PT cells and identify antagonists to treat protein-mediated conditions
XX
PS Claim 1; Page 30-32; 43pp; English.
XX
CC This polypeptide comprises a human foetal liver kinase 1 binding
CC protein (flk-1bp) (see W17837) that binds to the receptor tyrosine
CC kinase flk-1 expressed on vascular endothelial and other cells.
CC The mature flk1-bp can be secreted from host cells transformed with
CC an expression vector including an isolated flk-1bp cDNA clone (see
CC T68811). Flk-1bp can be used to isolate cells to which it binds,
CC for use in studying the roles of such cells and of flk-1 in
CC vasculogenesis and angiogenesis. Angiogenesis inhibition or
CC increased vascularisation may be clinically desirable (e.g. to
CC suppress solid tumour growth or in wound healing, respectively).
CC The flk-1bp can be administered to treat conditions with defective
CC or insufficient flk-1. Polypeptides may also act as carriers to
CC deliver diagnostic/therapeutic agents to cells to which flk1-bp
CC binds, to generate antibodies, and to identify flk-1bp antagonists
CC useful for treating flk-1bp mediated conditions.
XX
SQ Sequence 419 AA;

Query Match 99.0%; Score 721; DB 18; Length 419;
Best Local Similarity 99.3%; Pred. No. 2.2e-74;
Matches 136; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy      1 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     21 gpreapaaaaafesgldlsdaepdageatayaskdleeqlrsvssvdelmtvlypeywkm 80

Qy     61 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHTNTEILKSIDNEWRKTQCMPREVCIDV 120
          |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||
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Db     81 ykcqlrkggwqhnreqanlnsrteetikfaaahynteilksidnewrktqcmprevcidv 140

Qy    121 GKEFGVATNTFFKPPCV 137
          |||||||||||||||||
Db    141 gkefgvatntffkppcv 157


RESULT   8
Y22320
ID   Y22320 standard; Protein; 419 AA.
XX
AC   Y22320;
XX
DT   22-SEP-1999  (first entry)
XX
DE   Full length human VEGF2 protein sequence.
XX
KW   VEGF2; vascular endothelial growth factor 2; angiogenesis; bone damage;
KW   endothelial cell proliferation; tissue damage; therapy.
XX
OS   Homo sapiens.
XX
PN   US5932540-A.
XX
PD   03-AUG-1999.
XX
PF   24-DEC-1997;   97US-0999811.
XX
PR   24-DEC-1997;   97US-0999811.
PR   08-MAR-1994;   94US-0207550.
PR   06-JUN-1995;   95US-0465968.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Cao L,  Hu J,  Rosen CA;
XX
DR   WPI; 1999-443606/37.
DR   N-PSDB; X84837.
XX
PT   Vascular endothelial growth factor 2 for wound healing and vascular
PT   repair
XX
PS   Claim 1; Fig 1; 49pp; English.
XX
CC   This sequence is the vascular endothelial growth factor 2 (VEGF2),
CC   of the invention. The isolated polypeptide is useful for stimulating
CC   angiogenesis, by promoting the proliferation of endothelial cells, for
CC   the treatment of a wound, or for the treatment of tissue or bone damage.
XX
SQ   Sequence   419 AA;


  Query Match             99.0%;  Score 721;  DB 20;  Length 419;
  Best Local Similarity   99.3%;  Pred. No. 2.2e-74;
  Matches  136;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy      1 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     21 gpreapaaaaafesgldlsdaepdageatayaskdleeqlrsvssvdelmtvlypeywkm 80

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Qy    121 GKEFGVATNTFFKPPCV 137
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Db    141 gkefgvatntffkppcv 157


RESULT   1
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US-08-999-811-2
; Sequence 2, Application US/08999811
; Patent No. 5932540
;  GENERAL INFORMATION:
;    APPLICANT:  HU, JING-SHAN
;    APPLICANT:  ROSEN, CRAIG A.
;    APPLICANT:  CAO, LIANG
;    TITLE OF INVENTION:  VASCULAR ENDOTHELIAL GROWTH FACTOR 2
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  STERNE, KESSLER, GOLDSTEIN & FOX
;      STREET:  1100 NEW YORK AVENUE
;      CITY:  WASHINGTON
;      STATE:  DC
;      COUNTRY:  USA
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/999,811
;      FILING DATE:  HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/207,550
;      FILING DATE:  8-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/465,968
;      FILING DATE:  06-JUN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MARKOWICZ, KAREN R.
;      REGISTRATION NUMBER:  36,351
;      REFERENCE/DOCKET NUMBER:  1488.1000004
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)371-2600
;      TELEFAX:  (202)371-2540
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  419 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-999-811-2


  Query Match             99.0%;  Score 721;  DB 2;  Length 419;
  Best Local Similarity   99.3%;  Pred. No. 6.8e-80;
  Matches  136;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy       1 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      21 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 80

Qy      61 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHTNTEILKSIDNEWRKTQCMPREVCIDV 120
           |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db      81 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHYNTEILKSIDNEWRKTQCMPREVCIDV 140

Qy     121 GKEFGVATNTFFKPPCV 137
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Db     141 GKEFGVATNTFFKPPCV 157
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SEQ ID NO: 3, 21-419

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RESULT   1
US-08-795-430-8
; Sequence 8, Application US/08795430
; Patent No. 6130071
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; GENERAL INFORMATION:
;   APPLICANT: Alitalo, Kari
;   APPLICANT: Joukov, Vladimir
;   TITLE OF INVENTION: Vascular Endothelial Growth Factor C (VEGF-C)
;   TITLE OF INVENTION: Protein and Gene, Mutants Thereof, and Uses Thereof
;   NUMBER OF SEQUENCES: 57
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
;   STREET: 6300 Sears Tower, 233 South Wacker Drive
;   CITY: Chicago
;   STATE: Illinois
;   COUNTRY: United States of America
;   ZIP: 60606-6402
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/795,430
;   FILING DATE:
;   CLASSIFICATION: 435
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: PCT/FI96/00427
;   FILING DATE: 01-AUG-1996
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/671,573
;   FILING DATE: 28-JUN-1996
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/601,132
;   FILING DATE: 14-FEB-1996
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/585,895
;   FILING DATE: 12-JAN-1996
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/510,133
;   FILING DATE: 01-AUG-1995
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/340,011
;   FILING DATE: 14-NOV-1994
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Gass, David A.
;   REGISTRATION NUMBER: 38,153
;   REFERENCE/DOCKET NUMBER: 28967/33691
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 312/474-6300
;   TELEFAX: 312/474-0448
;   TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 8:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 419 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
US-08-795-430-8

  Query Match   99.7%; Score 2228; DB 3; Length 419;
  Best Local Similarity   99.7%; Pred. No. 5.5e-193;
  Matches 398; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   21 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 80

Qy   61 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHTNTEILKSIDNEWRKTQCMPREVCIDV 120
           |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db   81 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHYNTEILKSIDNEWRKTQCMPREVCIDV 140

Qy   121 GKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVT 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

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Db    141 GKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVT 200

Qy    181 ISFANHTSCRCMSKLDVYRQVHSIIRRSLPATLPQCQAANKTCPTNYMWNNHICRCLAQE 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    201 ISFANHTSCRCMSKLDVYRQVHSIIRRSLPATLPQCQAANKTCPTNYMWNNHICRCLAQE 260

Qy    241 DFMFSSDAGDDSTDGFHDICGPNKELDEETCQCVCRAGLRPASCGPHKELDRNSCQCVCK 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    261 DFMFSSDAGDDSTDGFHDICGPNKELDEETCQCVCRAGLRPASCGPHKELDRNSCQCVCK 320

Qy    301 NKLFPSQCGANREFDENTCQCVCKRTCPRNQPLNPGKCACECTESPQKCLLKGKKFHHQT 360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    321 NKLFPSQCGANREFDENTCQCVCKRTCPRNQPLNPGKCACECTESPQKCLLKGKKFHHQT 380

Qy    361 CSCYRRPCTNRQKACEPGFSYSEEVCRCVPSYWKRPQMS 399
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Db    381 CSCYRRPCTNRQKACEPGFSYSEEVCRCVPSYWKRPQMS 419
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RESULT   2
US-08-999-811-2
; Sequence 2, Application US/08999811
; Patent No. 5932540
;  GENERAL INFORMATION:
;    APPLICANT:  HU, JING-SHAN
;    APPLICANT:  ROSEN, CRAIG A.
;    APPLICANT:  CAO, LIANG
;    TITLE OF INVENTION:  VASCULAR ENDOTHELIAL GROWTH FACTOR 2
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  STERNE, KESSLER, GOLDSTEIN & FOX
;      STREET:  1100 NEW YORK AVENUE
;      CITY:  WASHINGTON
;      STATE:  DC
;      COUNTRY:  USA
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/999,811
;      FILING DATE:  HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/207,550
;      FILING DATE:  8-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/465,968
;      FILING DATE:  06-JUN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MARKOWICZ, KAREN R.
;      REGISTRATION NUMBER:  36,351
;      REFERENCE/DOCKET NUMBER:  1488.1000004
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)371-2600
;      TELEFAX:  (202)371-2540
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  419 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-999-811-2
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  Query Match             99.5%;  Score 2224;  DB 2;  Length 419;
  Best Local Similarity   99.5%;  Pred. No. 1.3e-192;
  Matches  397;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;
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Qy       1 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 60
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Db      21 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 80

Qy      61 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHTNTEILKSIDNEWRKTQCMPREVCIDV 120
           |||||||||||||||||||||||||||||| ||||||||||||||||||||||||
Db      81 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHYNTEILKSIDNEWRKTQCMPREVCIDV 140

Qy     121 GKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVT 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     141 GKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVT 200

Qy     181 ISFANHTSCRCMSKLDVYRQVHSIIRRSLPATLPQCQAANKTCPTNYMWNNHICRCLAQE 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     201 ISFANHTSCRCMSKLDVYRQVHSIIRRSLPATLPQCQAANKTCPTNYMWNNHICRCLAQE 260

Qy     241 DFMFSSDAGDDSTDGFHDICGPNKELDEETCQCVCRAGLRPASCGPHKELDRNSCQCVCK 300
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     261 DFMFSSDAGDDSTDGFHDICGPNKELDEETCQCVCRAGLRPASCGPHKELDRNSCQCVCK 320

Qy     301 NKLFPSQCGANREFDENTCQCVCKRTCPRNQPLNPGKCACECTESPQKCLLKGKKFHHQT 360
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     321 NKLFPSQCGANREFDENTCQCVCKRTCPRNQPLNPGKCACECTESPQKCLLKGKKFHHQT 380

Qy     361 CSCYRRPCTNRQKACEPGFSYSEEVCRCVPSYWKRPQMS 399
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Db     381 CSCYRRPCTNRQKACEPGFSYSEEVCRCVPSYWQRPQMS 419


RESULT   4
US-09-042-105-18
; Sequence 18, Application US/09042105
; Patent No. 6040157
;  GENERAL INFORMATION:
;    APPLICANT:  HU, JING-SHAN
;    APPLICANT:  ROSEN, CRAIG A.
;    APPLICANT:  CAO, LIANG
;    TITLE OF INVENTION:  VASCULAR ENDOTHELIAL GROWTH FACTOR 2
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  STERNE, KESSLER, GOLDSTEIN & FOX
;      STREET:  1100 NEW YORK AVENUE
;      CITY:  WASHINGTON
;      STATE:  DC
;      COUNTRY:  USA
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/042,105
;      FILING DATE:  HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/207,550
;      FILING DATE:  8-MAR-1994
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/465,968
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  TO BE ASSIGNED
;      FILING DATE:  24-DEC-1997
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  ERIC K. STEFFE
;      REGISTRATION NUMBER:  36,688
```

; REFERENCE/DOCKET NUMBER: 1488.1000003/EKS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)371-2600
; TELEFAX: (202)371-2540
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 419 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-042-105-18

Query Match 99.5%; Score 2224; DB 3; Length 419;
Best Local Similarity 99.5%; Pred. No. 1.3e-192;
Matches 397; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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Db      21 GPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKM 80

Qy      61 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHTNTEILKSIDNEWRKTQCMPREVCIDV 120
           |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||||
Db      81 YKCQLRKGGWQHNREQANLNSRTEETIKFAAAHYNTEILKSIDNEWRKTQCMPREVCIDV 140

Qy     121 GKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVT 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     141 GKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVT 200

Qy     181 ISFANHTSCRCMSKLDVYRQVHSIIRRSLPATLPQCQAANKTCPTNYMWNNHICRCLAQE 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     201 ISFANHTSCRCMSKLDVYRQVHSIIRRSLPATLPQCQAANKTCPTNYMWNNHICRCLAQE 260

Qy     241 DFMFSSDAGDDSTDGFHDICGPNKELDEETCQCVCRAGLRPASCGPHKELDRNSCQCVCK 300
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     261 DFMFSSDAGDDSTDGFHDICGPNKELDEETCQCVCRAGLRPASCGPHKELDRNSCQCVCK 320

Qy     301 NKLFPSQCGANREFDENTCQCVCKRTCPRNQPLNPGKCACECTESPQKCLLKGKKFHHQT 360
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     321 NKLFPSQCGANREFDENTCQCVCKRTCPRNQPLNPGKCACECTESPQKCLLKGKKFHHQT 380

Qy     361 CSCYRRPCTNRQKACEPGFSYSEEVCRCVPSYWKRPQMS 399
           |||||||||||||||||||||||||||||:|||||
Db     381 CSCYRRPCTNRQKACEPGFSYSEEVCRCVPSYWQRPQMS 419
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